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SERVICE BULLETIN

Subject: Recall For Replacement of Pelican NP and NS Guide Wheel Seals

DATE: 07/23/2009
NUMBER: SB-0014

TO: All Dealer Principals, Service Managers, Parts Managers and Regional Managers

ALWAYS REFER TO THE OPERATOR MANUAL FOR SAFETY INSTRUCTIONS BEFORE STARTING WORK.

INTENT:

Some NP and NS guide wheels may have seals incorrectly assembled in the hub. This recall requires replacement of wheel seals used for all NP and NS guide wheels, re-packing wheel bearings, and re-assembly of the hubs including proper bearing preload. Order two 7077509 seals for installation on each sweeper. Be prepared to install the bearing/hub parts for use if replacement is necessary.

UNITS TO SERVICE:

NP0101-NP1100D, NS0101-NS0917S, NR0101-NR1128D

PARTS AVAILABILITY: 07/20/09

SPECIAL TOOLS:

Seal Installation Tool P/N 7970360

PARTS REQUIRED:

Part No.	Qty.	Description
7077509	2	Guide Wheel Hub Seal

HUB PARTS (USE AS NEEDED FOR REPAIR):

Part No.	Qty.	Description
7077504	as req.	Outer Bearing Cone
1081485	as req.	Axle**
1081667	as req.	Guide Wheel Hub (assy)*
7077505	as req.	Inner Bearing Cone
6183819	as req.	Inner Bearing Cup
7077503	as req.	Outer Bearing Cup

*Guide Wheel Hub includes bearings, hub, and seals (Hub is assembled but not lubricated) (see Page 4).

** 1081485 Axle -Contact Elgin Service Department for instructions.

PROCEDURE:

1. Park the Pelican in a level work area. (FIGURE 1)
2. Apply the park brake, turn the engine off, and securely chock the drive wheels.
3. Raise the guide wheels off the ground and place suitable jack stand supports under the rear frame of the sweeper.
4. Remove the Guide Wheels from the hubs as instructed in the NP/NS Service Manual.

FIGURE 1

PROCEDURE: (Cont'd)

5. Loosen the spindle nut and remove the hubs from the sweeper steering axle. (FIGURE 2)
6. Clean the hubs thoroughly and replace them if they are damaged.
7. Clean the bearings thoroughly and inspect the hub components for damage. If bearing rollers are galled, chipped or damaged; replace the cups with new parts. Always replace bearing cones if cups are replaced. Do not mix new and used bearing assemblies.
8. If the bearing cones are damaged, loose in the hub bores, or otherwise damaged, replace with new cones.
9. If the axle spindles are damaged or the inner races have galled the shaft, replace the axle by pressing a new axle into the lower housing. (Call Elgin Service Department for axle replacement instructions.)
10. The inner hub bearing should be test fit on the spindle. If the bearing does not fit onto the shaft easily, apply a light coating of grease to the shaft. Note: DO NOT USE A HAMMER TO FORCE THE BEARING ONTO THE SPINDLE.
11. Remove the inner bearing from the spindle. Pack the bearing with grease (Shell Retinax LX2 or equivelent grease recommended for wheel bearing applications).
    IMPORTANT: Do not mix grease types or brands when lubricating wheel bearings.
    Use a commercial wheel bearing packer (available at auto supply outlets) or a suitable hand packing technique. Place the bearing into the packer with the taper matching the cone of the bearing packer (FIGURE 3).
12. Tighten the cap of the packer until it is snug on the bearing.
13. Pump grease until the grease is pushed out from the bearing. (FIGURE 4)

FIGURE 2

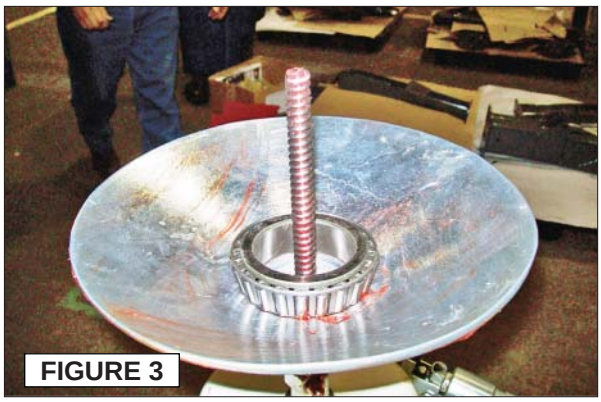


FIGURE 3

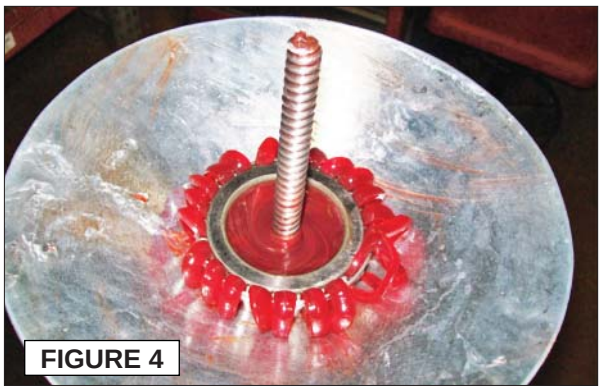


FIGURE 4

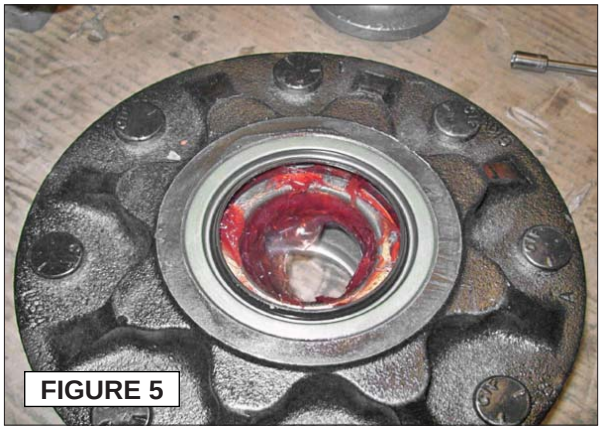


FIGURE 5

PROCEDURE: (Cont'd)

14. Place the packed bearing into the hub (FIGURE 5).
15. Use seal installation tool to install the bearing seal. Place the seal so that it engages the pilot surface (FIGURES 6, 7, 8, 9, 10). Verify that the seal lip is facing out.
16. Place the hub onto the spindle. Make sure that the bearing is straight on the spindle and push into place.
17. Pack the outer bearing with grease (repeat Step 13) and place the bearing into the hub (FIGURE 11).
18. Add the spindle washer (1081743) and the spindle nut (1081742) to the wheel hub assembly. Tighten to a torque of 100 lb ft and then turn counterclockwise 1/6 of a turn, making sure the cotter pin (5005490) can be installed. (1/6 of a turn is represented by the two lines in Fig 12)
19. Bend the cotter pin, as shown in (FIGURE 13).
20. Using a hand grease gun, add grease until a small amount appears at the seal. Seal installation should allow grease to flow freely past the seal without causing damage to the seal.
    IMPORTANT: Do not mix grease types or brands when lubricating wheel bearings.

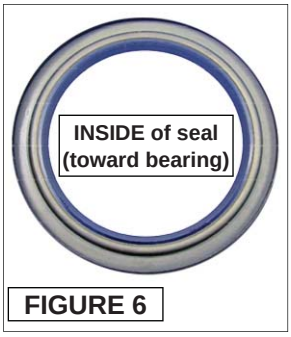


FIGURE 6

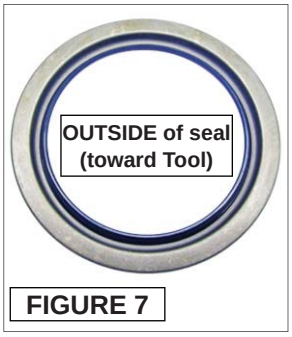


FIGURE 7

FIGURE 8

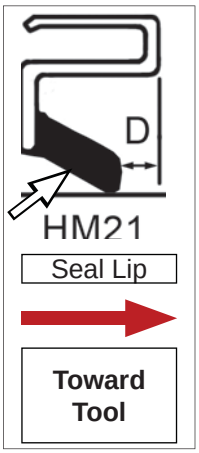


FIGURE 9

FIGURE 10

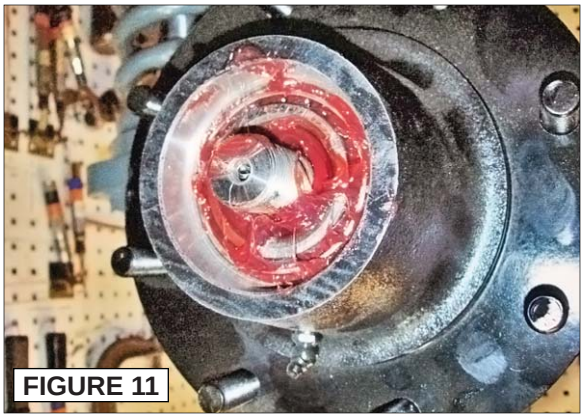


FIGURE 11

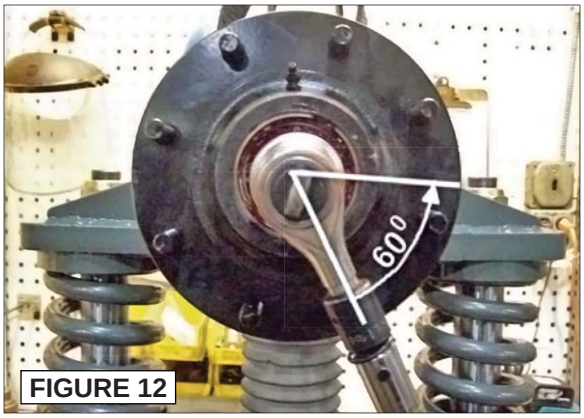
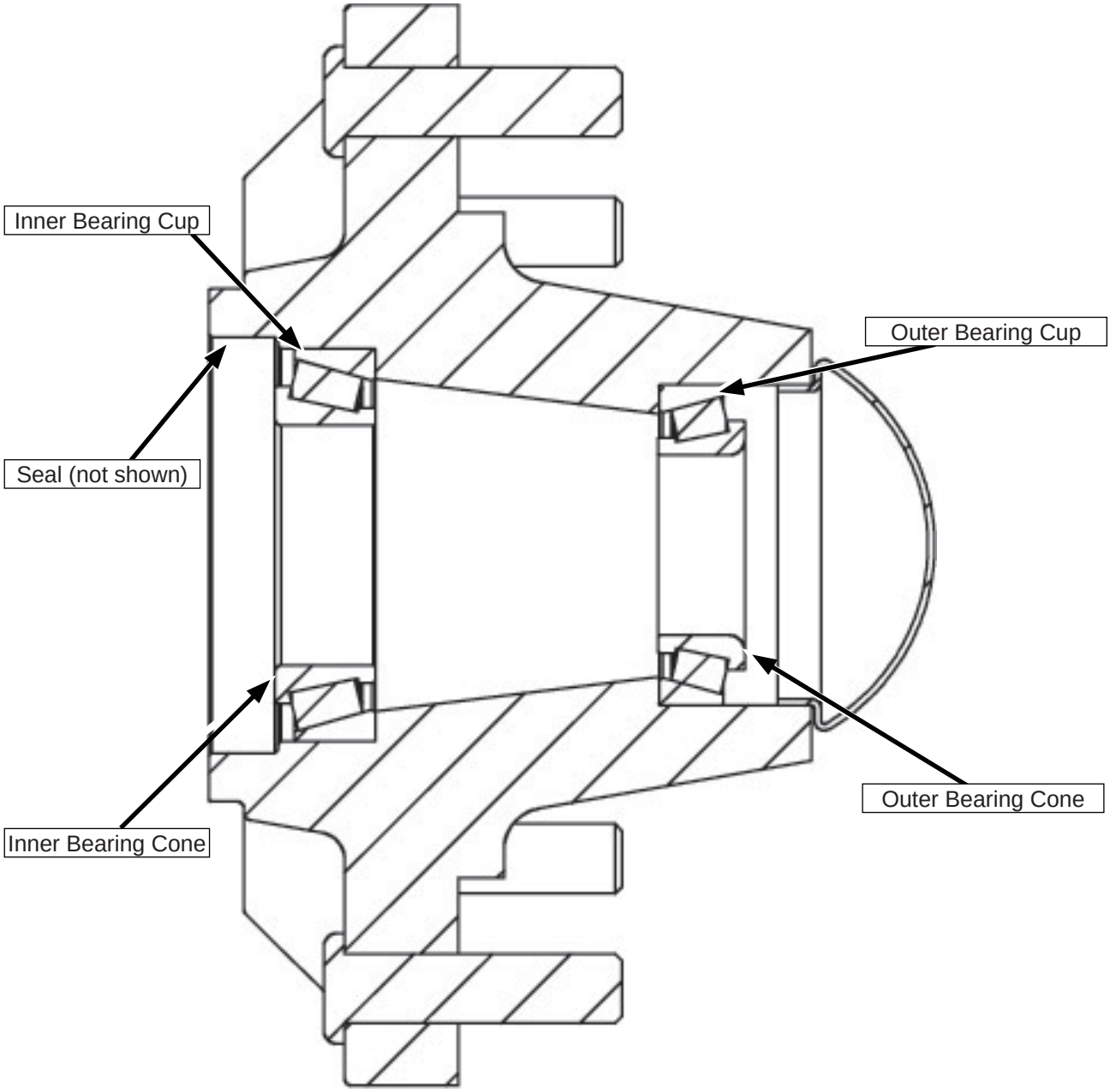


FIGURE 12

FIGURE 13



Warranty Coverage and Claim Submittal

The ESG dealer should submit a claim for warranty. In accordance with FSESG published policy, reimbursement for travel will be at ½ the dealers' standard warranty labor rate for actual travel time, up to a maximum of 3 hours. Any exceptions from standard travel time or flat rate labor hours will require pre-approval by the Regional Service and Parts Manager. If travel is claimed, the machine address must be provided in the appropriate field on the warranty claim.

Use the following information when submitting a warranty claim:

CAUSAL PART:**7077509**___

To create the FAULT CODE, click_ **chassis**, click **_steering control _**, and then click_**guide wheel strut axle bearings**.

In the FAULT FOUND dropdown list, select_ **leaks**_____.

In the CAUSED BY dropdown list, select_ **improperly installed**____.

To enter the Service procedures, perform the following:

For INSTALLED PART # **_7077509__**, select **chassis**, select _**steering control** _, and then select_**guide wheel strut axle bearings** then select **_repack_**. **SRT of 2hrs and 0min is allowed**. OR **Remove and replace for SRT of 2hr and 30min**.